WSM

WORKSHOP MANUAL

TRACTOR

M4000(DT), M4500(DT), M5500(DT) , M6500(DT), M7500(DT)

Kubota

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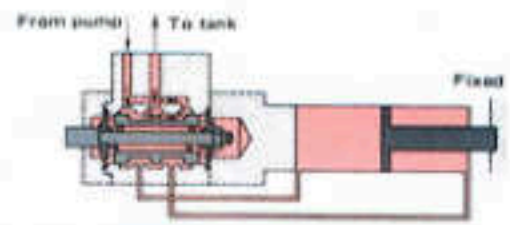
2. FUNCTION

2-1. Oil flow in power steering booster

(1) "NEUTRAL" POSITION

When the steering wheel is not held, the spool is set at the center position by spring pressure. Therefore, the oil forced from the hydraulic pump returns to the tank via the journals on both sides of the spool.

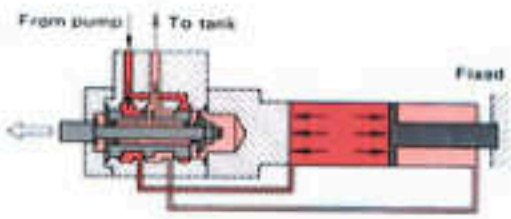
Fig.66



(2) "OUT-STROKE" POSITION

Turning the steering wheel to the right actuates the drag link and the related members to move the spool to the left (Fig. 67). Therefore, the oil forced from the hydraulic pump goes into the left chamber of the cylinder piston through the journal on the left side of the spool. Meanwhile, the oil in the right chamber returns to the tank via the valve. When the piston advances, the spool returns to neutral.

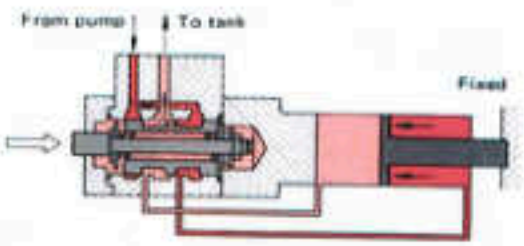
Fig.67



(3) "IN-STROKE" POSITION

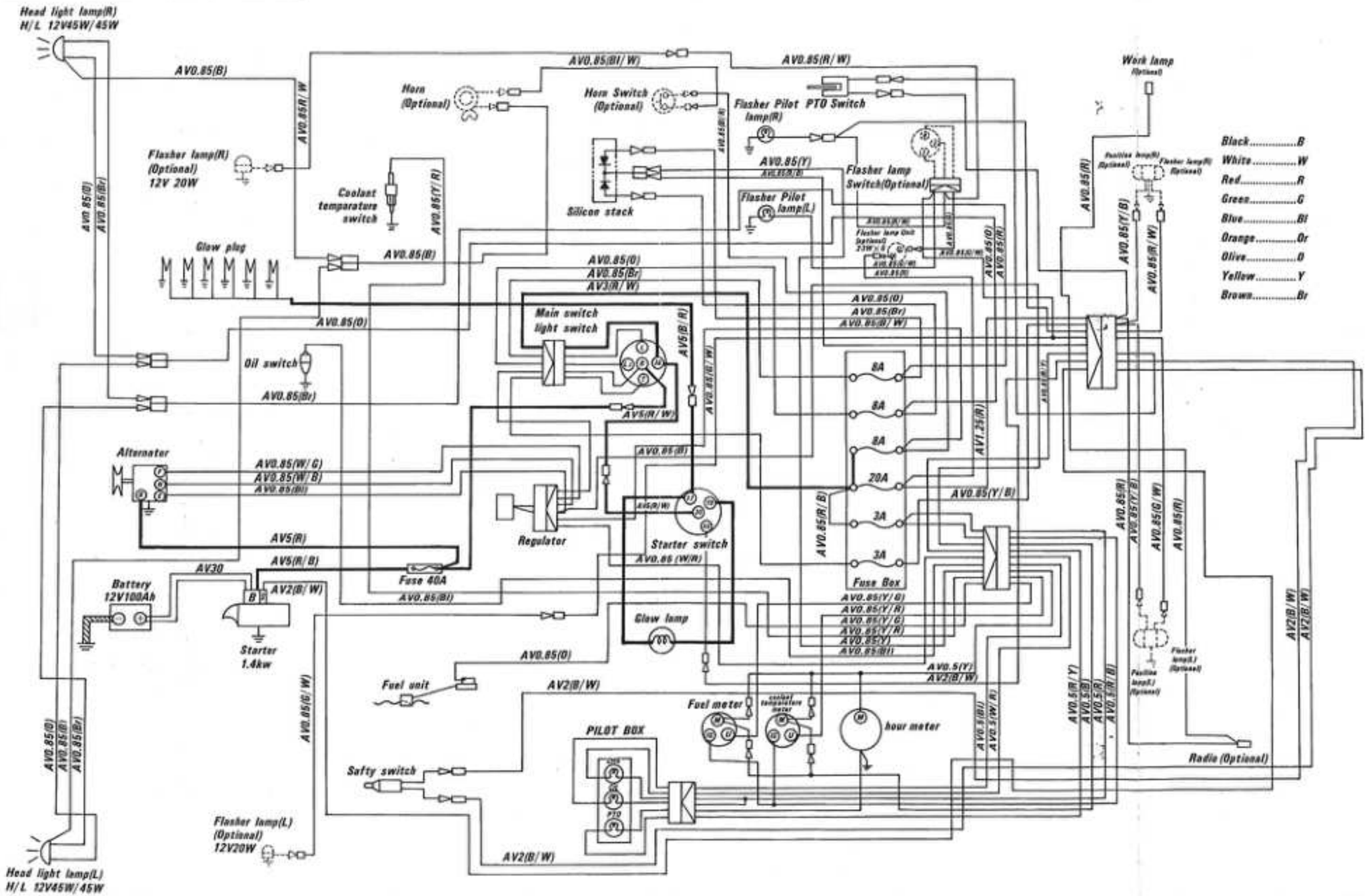
Turning the steering wheel to the left moves the spool to the right. Thus the oil forced from the hydraulic pump goes into the right chamber of the cylinder piston through the journal on the right side of the spool. Meanwhile, the oil in the left chamber returns to the tank through the valve.

Fig.68



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ELECTRICAL WIRING



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